CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.01/BMS/CSR-03/1093g/CEMENT/2015-16 Date: 14.03.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Yelahanka Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. B.M. Srinivas,** No.17, Kurubarahalli Main Road, Mahalakshmipuram (Post), Bangalore.
*NAME OF THE WORK	:	Improvements to approach road connecting Govt PU College at Yelahanka Police Station circle in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
*REFERENCE	:	AEE/BBMP/YSD/AE-1/55/ 2015-16 Dated: 10.03.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	10.03.2016
PERIOD OF TESTING	:	10.03.2016 to 14.03.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Note:

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

AK1

AK2

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Job No.: CTCE/BBMP/W.No.01/BMS/CSR-03/1093g/SAND-Gradation/2015-16 : 14.03.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. B.M. Srinivas,**
No.17, Kurubarahalli Main Road, Mahalakshmipuram (Post), Bangalore.

*** Name of Work** : Improvements to approach road connecting Govt PU College at Yelahanka Police Station circle in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/YSD/AE-1/55/ 2015-16 Dated: 10.03.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 10.03.2016

Date of Testing : 14.03.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.00	90-100	90-100	90-100	95-100
2.36	75.50	60-95	75-100	85-100	95-100
1.18	54.00	30-70	55-90	75-100	90-100
600 Micron	25.00	15-34	35-59	60-79	80-100
300 Micron	11.00	5-20	8-30	12-40	15-50
150 Micron	5.00	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

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Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.01/BMS/CSR-03/1093g/AGG/GR/2015-16 : 14.03.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. B.M. Srinivas,**
No.17, Kurubarahalli Main Road, Mahalakshmipuram (Post), Bangalore.

*** Name of Work** : Improvements to approach road connecting Govt PU College at Yelahanka Police Station circle in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/YSD/AE-1/55/ 2015-16 Dated: 10.03.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 10.03.2016

Date of Testing : 14.03.2016

Total Wt. of Aggregates in gms= **7000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.93	95-100	85-100
20	44.79	30-70	0-20
10	17.57	10-35	0-5
4.75	2.14	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.01/BMS/CSR-03/1093g/AGG/GR/2015-16 : 14.03.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.M. Srinivas,** No.17, Kurubarahalli Main Road, Mahalakshmipuram (Post), Bangalore.
* Name of Work	: Improvements to approach road connecting Govt PU College at Yelahanka Police Station circle in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: AEE/BBMP/YSD/AE-1/55/ 2015-16 Dated: 10.03.2016
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (20mm)
Sample Received on	: 10.03.2016
Date of Testing	: 14.03.2016

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	97.00	95-100	85-100
10	28.80	25-55	0-20
4.75	4.80	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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AE-1 AE-2

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Job No.: CTCE/BBMP/W.No.01/BMS/CSR-03/1093g/CUBE/2015-16 09.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

* **Agency** : **Mr. B.M. Srinivas,**
No.17, Kurubarahalli Main Road, Mahalakshmipuram (Post), Bangalore.

* **Name of the work** : Improvements to approach road connecting Govt PU College at Yelahanka Police Station circle in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.

* **Reference** : AEE/BBMP/YSD/AE-1/55/ 2015-16 Dated: 10.03.2016

* **Sample ID** : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{30}

Compressive Strength as on : 28th day

Sample Received on : 09.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.04.2016	09.05.2016	8.129	502.2	22.32
2	11.04.2016	09.05.2016	8.235	512.3	22.77
3	11.04.2016	09.05.2016	8.380	529.6	23.54

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